

**SELF ADJUSTING STEREO CAMERA SYSTEM**  
**ABSTRACT OF THE DISCLOSURE**

A stereo camera system including: a stereo imaging system such as two or more cameras or a camera and a set of angled mirrors, for outputting at least one stereo image; a recognition system for locating an object of interest in the field of view of the stereo imaging system and at least one of a distance of the object of interest from the stereo imaging system and the size of the object of interest; and an adjustor for automatically changing at least one system parameter which affects the spatial resolution of the object of interest based on at least one of the located distance of the object of interest from the stereo imaging system and the size of the object of interest.